

1789302

Printing date: 26.07.2017

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01 SECTION 1: Identification of the substance/mixture and of the company undertaking• **1.1 Product identifier**

Trade name:
HYDROSAN

• **Article number:**
413720

• **1.2 Relevant identified uses of the substance or mixture and uses advised against**
See the following or attachments.

• **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

• **Application of the substance / the preparation**
Disinfectant

• **1.3 Details of the supplier of the safety data sheet**• **Manufacturer/Supplier:**

Manufacturer:
WIGOL W Stache GmbH
chemische Fabrik
Textorstraße 2
D-67547 Worms
Fax : +49-(0)6241-414141

Tel.: +49-(0)6241-4141-0

• **Informing department:**

Laboratory Department
TEL: +49(0)6241 4141 0; FAX: +49(0)6241 4141 41; mail: kontakt@wigol.de

• **1.4 Emergency telephone number**

TEL: +49 (0) 6131 19240
Poison Information Center Mainz, Germany
<http://www.giftinfo.uni-mainz.de/>

02 SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.

Skin Irrit. 2 - H315 Causes skin irritation.

STOT SE 3 - H335 May cause respiratory irritation.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

• **2.2 Label elements**• **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

• **Hazard pictograms**

GHS05



GHS07

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- **Signal word**
Danger
- **Hazard-determining components of labelling:**
hydrogen peroxide
- **Hazard statements**
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
According to Annex XIII, XIV of Regulation (EC) No. 1907/2006 concerning REACH Not fulfilling PBT (persistent bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

03 SECTION 3: Composition/information of ingredients

- **3.2 Mixtures**
 - **Description:**
Solution of substances listed below with non declarable additions.
 - **Dangerous components:**
- | CAS Number | | % |
|------------|--|-------|
| 7722-84-1 | hydrogen peroxide | >30,0 |
| | EC Number: 231-765-0 | |
| | Record number 01-2119485845-22-XXXX | |
| |  Ox. Liq. 1 - H271;  Skin Corr. 1A | |
| | - H314;  Acute Tox. 4 - H302, Acute | |
| | Tox. 4 - H332, STOT SE 3 - H335; Aquatic | |
| | Chronic 3 - H412 | |
- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**
oxygen-based bleaching agents

>= 30%

04 SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Personal protection for the First Aider.
- **After inhalation**

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Supply fresh air or oxygen; call for doctor.

- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
Use eye protection.
- **After swallowing**
Rinse out mouth.
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
Do not induce vomiting; instantly call for medical help.
During spontaneous vomiting hold the head of the casualty onto low with the body in a prone position in order to avoid the penetration of vomit into the air tube.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Danger**
No further relevant information available.
- **Treatment**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Typical corrosive acid burns. Symptoms of acute poisoning: Eyes: shooting pain, opacity of the cornea (possibly irreversible) Skin: irritations, chemical burns, possible shock Respiratory tract: tussive irritation, burning sensation to the mucous membranes
Information see: GESTIS-database on hazardous substances www.dguv.de/ifa/gestis/gestis-stoffdatenbank/

05 SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents**
Not known.
- **5.2 Special hazards arising from the substance or mixture**
In the case of decomposition release of oxygen - can be fire-promoting
Danger of high pressure formation and bursting during the decomposition in closed systems and pipes.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Keep breathing equipment ready.
Wear protective equipment. Keep unprotected persons away.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

06 SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Put on breathing apparatus.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions**
Inform respective authorities in case product reaches water or sewage system.
Dilute with much water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

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- Dispose of the material collected according to regulations.
 Dispose of contaminated material as waste according to item 13.
 Ensure adequate ventilation.
- **6.4 Reference to other sections**
 Other regulations, limitations and prohibitive regulations see chapter 15

07 SECTION 7: Handling and storage

- **Handling**
- **7.1 Precautions for safe handling**
 Do not seal containers gas-tight.
 Keep away from heat and direct sunlight.
 Ensure good ventilation/exhaustion at the workplace.
 Do not mix with alkaline products
- **Information about protection against explosions and fires:**
 Release of oxygen promotes burning.
- **Technically and precautionary measures**
 Store in the original bundle.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 Observe official regulations on storing packagings with dangerous goods
- **Information about storage in one common storage facility:**
 Store away from foodstuffs.
- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed containers.
 Protect from heat and direct sunlight.
 Protect from frost.
- **Storage class**
 5.1 B
 Storage classes according TRGS 510
- **7.3 Specific end use(s)**
 No further relevant information available.

08 SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
 No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- **DNELs**
7722-84-1 hydrogen peroxide
 DNEL: 3 mg/m³ (Worker, short time/lok, inhalation)
 DNEL: 1,4 mg/m³ (Worker, long time/lok, inhalation)
 DNEL: 1,93 mg/m³ (Public, short time/lok, inhalat.)
 DNEL: 0,21 mg/m³ (Public, long time/lok, inhalation)
- **PNECs**
7722-84-1 hydrogen peroxide
 PNEC: 0,013 mg/l (Fresh water)
 PNEC: 0,013 mg/l (Seawater)
 PNEC: 0,014 mg/l (Sporadic release)
 PNEC: 4,66 mg/l (Sewage treatment)
 PNEC: 0,047 mg/kg (Sediment (fresh water))
 PNEC: 0,047 mg/kg (Sediment (Seawater))
 PNEC: 0,002 mg/kg (Ground)
- **Additional information:**
 The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**

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- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
Instantly remove any soiled and impregnated garments.
Avoid contact with the skin.
Avoid contact with the eyes.
Other regulations, limitations and prohibitive regulations see chapter 15
- **Breathing equipment: Use breathing protection when aerosol or mist is formed (FFP2SL)**
Combination filter ABEK Other regulations, limitations and prohibitive regulations see chapter 15
- **Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.**
Acid resistant protection gloves (Butyl india rubber, Viton) - EN 374 Other regulations, limitations and prohibitive regulations see chapter 15
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection: Safety glasses with side protection (EN 166) Other regulations, limitations and prohibitive regulations see chapter 15**
- **Body protection: Protective work clothing EN 340 - Protective clothing, general requirements**
Chemical protective clothing - EN 463 following Other regulations, limitations and prohibitive regulations see chapter 15

09 SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Appearance:**

Form:	Fluid
Colour:	Colourless
Smell:	Weak, characteristic
Odour threshold:	Not determined.
ph-value:	at 20 °C 3,0+-0,5 (10,000 g/l water)

CHANGE IN CONDITION range/value unit method

Melting point/Melting range:	-33 °C
Boiling point/Boiling range:	108 °C
Flash point:	Not applicable
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Self-inflammability	Not determined.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Steam pressure:	Not determined.
Density	1,1020 - 1,1620 g/cm ³ 20°C
Solubility in / Miscibility with	
Water:	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent content:	
Organic solvents:	0,00 %

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9.2 Other information

No further relevant information available.

10 SECTION 10: Stability and Reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Loss of oxygen on heating
- **10.3 Possibility of hazardous reactions**
Decomposition under release of oxygen.
- **10.4 Conditions to avoid**
No further relevant information available.
- **10.5 Incompatible materials**
No further relevant information available.
- **Dangerous reactions**
Violent reactions with strong alkalis and oxidizing agents.
Reacts with heavy metals.
Reacts with base metals forming hydrogen.
Danger of high pressure formation and bursting during the decomposition in closed systems and pipes.
- **10.6 Hazardous decomposition products**
Oxygen

11 SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
7722-84-1 hydrogen peroxide
Oral, LD50: 418 mg/kg (rat) (US-EPA)
Dermal, LD50: 4060 mg/kg (Rabbit)
- **Primary irritant effect:**
- **on the skin:**
Irritant for skin and mucous membranes.
- **on the eye:**
Strong irritant with the danger of severe eye injury.
- **Sensitization:**
No sensitizing effect known.
- **Other information (about experimental toxicology):**
Note: If the toxicity data relate to the mixture, the calculation is made in accordance with Annex VI, Part 3 of Regulation (EC) 1272/2008. If toxicity data are listed for individual substances they do not refer to the proportions in the mixture, but only on the materials in their standard concentrations.
- **Additional toxicological information:**
Harmful
Irritant

12 SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
7722-84-1 hydrogen peroxide
LC50 (96h): 16,4 mg/l (Pimephales promelas) (US-EPA)
EC50 (48h): 2,4 mg/l (daphnie) (US-EPA)
NOEC (21d): 0,63 mg/l (Daphnia magna)
ErC50 (72h): 1,38 mg/l (Skeletonema costatum)
NOEC (72h): 0,63 mg/l (Skeletonema costatum)
- **12.2 Persistence and degradability**

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No further relevant information available.

- **Behaviour in environmental systems:**
No further relevant information available.

- **12.3 Bioaccumulative potential**
No further relevant information available.

- **12.4 Mobility in soil**
No further relevant information available.

- **Ecotoxicological effects:**

- **Behaviour in sewage processing plants:**
If appropriate diluted product reaches the sewage processing plant, there will be no disturbance of the biodegradable activities.

- **Additional ecological information:**

- **CSB-value:**
Not determined.

- **BSB5-value:**
Not determined

- **AOX-indication:**
Product contains no organic bounded halogen

- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Before the waste is drained usually neutralization is necessary.
If product reaches untreated water systems, hazardous effects on fish and other water organism are possible.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**
Not applicable.

- **vPvB:**
Not applicable.

- **12.6 Other adverse effects**
No further relevant information available.

13 SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

The allocation of the waste disposal key number is to be executed by the user according to the European waste disposal catalog (EAK) industry and product specific (origin-referred).
The waste keys are only referring to concentrated products.

- **European waste catalogue**

16
WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 09
oxidising substances
16 09 03
peroxides, for example hydrogen peroxide

- **Uncleaned packagings:**

- **Recommendation:**
Disposal must be made according to official regulations.

- **Recommended cleaning agent:**
Water, if necessary with cleaning agent.

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14 SECTION 14: Transport information

• 14.1 UN-Number

ADR UN2014**IMDG** UN2014**IATA** UN2014

• 14.2 UN proper shipping name

ADR 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION**IMDG** HYDROGEN PEROXIDE, AQUEOUS SOLUTION**IATA** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

• 14.3 Transport hazard class(es)

ADR 5.1 (OC1) Oxidising substances.**Class****Label****IMDG****Class****Label**

5.1 Oxidising substances.

**IATA****Class****Label**

5.1 Oxidising substances.



• 14.4 Packing group

ADR II**IMDG** II**IATA** II

• 14.5 Environmental hazards:

Marine pollutant: No

• 14.6 Special precautions for user

Warning: Oxidising substances.

Danger code (Kemler): 58**EMS Number:** F-H,S-Q

• 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

• Transport/Additional information:

- **Excepted quantities (EQ):** E2**Limited quantities (LQ)** 1L**Transport category** 2**Tunnel restriction code** E**IMDG****Limited quantities (LQ)** 1L**Excepted quantities (EQ)** E2

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- **UN "Model Regulation":**
UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

15 SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Conditions of restriction: 3
- **National regulations**
Germany: Technical rules for dangerous materials (TRGS) in particular consider:
TRGS 500 Protection measures : minimum standards
TRGS 531 endangerment of the skin by work in the damp environment (damp work)
TRGS 201 Classification and marking from wastes to the removal while handling
G 26 Respirators
Germany: Regard the principles of the professional organizations rules (BGR) in particular consider:
BGR 190: Use of respirators
BGR 197: Use of skin protection
- **Classification after plant security regulation (BetrSichV):**
-
- **Technical instructions (air):**
No further details
- **Water hazard class:**
In accordance with VwVwS appendix 4
Water hazard class 1 (E) : slightly hazardous for water.Self-assessment
- **Other regulations, limitations and prohibitive regulations**
- **x**
"Arbeitsmedizinische Vorsorge" (DGUV-V6)
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

16 SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
- **Training hints**
Consider annual instruction and training of the coworkers
Contents and time of the instruction are to be held in a written form and must be confirmed by the instructing people by signature. Consider storage time of the proof.
- **Recommended restriction of use**
No public product - only for commercial applications.
- **Department issuing data specification sheet:**
Laboratory department.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**
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